AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1.   (Currently Amended) A voice over Internet protocol (VoIP) ~~VoIP~~ telephone comprising:

a network communication system ~~(16)~~ for encapsulating data into IP frames ~~(42)~~ for exchange with remote devices over a frame switched network ~~(12)~~;

a system client application ~~(24)~~ coupled to the network communication system ~~(16)~~ for exchanging call set up messages ~~(44)~~ with a remote VoIP gateway ~~(36)~~ to establish a media channel for the exchange of media session data;

a dialog system ~~(32)~~ coupled to the network communication system, the dialog system comprising an audio signal processor, wherein the audio signal processor comprises: ~~(16) for~~:

a compression module, wherein the compression module is adapted to:

translate ~~translating~~ frames of compressed digital audio data originated from a remote device to recreate remote voice band ~~(54)~~; and

detect and translate ~~detecting and translating~~ local voice band ~~(56)~~ to compressed digital audio data for transmission to the VoIP gateway ~~(36)~~; and

a signal detection module, wherein the signal detection module comprises:

an interpreter circuit;

a frequency detection circuit, wherein the frequency detection circuit is adapted to provide an indication of frequency patterns detected within the remote voice band to the interpreter circuit;

a cadence detection circuit, wherein the cadence detection circuit is adapted to provide an indication of cadence patterns detected within the remote voice band to the interpreter circuit;

a phase shift detection circuit, wherein the phase shift detection circuit is adapted to provide an indication of phase shift patterns detected within the remote voice band; and

wherein the interpreter circuit is adapted to:

utilize a first table to generate a session status signal matching a combination of the frequency patterns, the cadence patterns and the phase shift patterns; and

~~detecting in-band signaling received from the VoIP gateway (36); and~~

provide the ~~providing~~ session status signal ~~signals (52),~~ ~~corresponding to the detected in-band signaling,~~ to a presentation module ~~(28)~~; and

wherein the presentation module comprises a message look up table, the message look up table being adapted to store a plurality of session status messages, each in association with a session status signal; and

wherein the presentation module is adapted to:

receive ~~(28) receiving~~ the session status signal ~~signals (52)~~;

look up, in the message look up table, the session status message the corresponds to the session status signal; and

drive ~~driving~~ a display of the session status message ~~messages (50)~~ on a display screen ~~(30)~~.

2.   (Currently Amended) The VoIP telephone of claim 1, wherein:

the frequency detection circuit is further adapted to provide an indication of frequency patterns detected within the local voice band to the interpreter circuit;

the cadence detection circuit is further adapted to provide an indication of cadence patterns detected within the local voice band to the interpreter circuit;

the phase shirt detection circuit is further adapted to provide an indication of phase shift patterns detected within the remote voice band; and

wherein the interpreter circuit is further adapted to utilize the first table to generate a session status signal matching a combination of the frequency patterns, the cadence patterns and the phase shift patterns of the local voice band; and

wherein ~~the system client (24) further provides session status signals (52) to the presentation module (28) and~~ the presentation module ~~(28)~~ drives the display of session status messages ~~(50)~~ in accordance with ~~both~~ the session status signals from both the remote voice band and the local voice band. ~~(52) from the dialog system and the system client (24).~~

Claims 3 - 11   Canceled.

12.   (Currently Amended) The VoIP telephone of claim 6, further comprising:

a key pad system ~~(58)~~ for modulating the local voice band ~~(56)~~ with a tone corresponding to an operator depressed key to generate an in-band signaling ~~(62)~~ within the local voice band ~~(56)~~; and

the in band signal detection module further detects in-band signaling within the local voice band and generates a session status signal corresponding thereto. ~~;~~

Claims 13 – 23   Canceled.

24.   (New) The telephone of claim 2, wherein the interpreter circuit is adapted to provide a busy status signal to the presentation module upon receiving:

an indication that the frequency detection module has detected a frequency corresponding to a busy signal; and

an indication that the cadence detection module has detected a cadence pattern corresponding to busy signal.

25.   (New) The telephone of claim 2, wherein the interpreter circuit is adapted to provide a ring back status signal to the presentation module upon receiving:

an indication that the frequency detection module has detected a frequency corresponding to a ring back signal; and

an indication that the cadence detection module has detected a cadence pattern corresponding to ring back signal.

26.   (New) The telephone of claim 2, wherein the interpreter circuit is adapted to provide a particular caller ID digit status signal to the presentation module upon:

receiving an indication that the phase shift detection circuit has detected a phase shift pattern corresponding to the particular caller ID digit;

determining that the phase shift pattern corresponding to the particular caller ID digit is after receiving an indication that the phase shift detection circuit has detected a phase shift pattern corresponding to the start of caller ID data; and

determining that the phase shift pattern corresponding to the start of caller ID data is between rings of a ring back tone.

27.   (New) The telephone of claim 12, wherein the interpreter circuit is adapted to provide a particular digit status signal to the presentation module upon receiving:

an indication that the frequency detection module has detected a frequency corresponding to a DTMF tone of the particular digit; and

an indication that the cadence detection module has detected a cadence pattern corresponding to a time duration typical of operator activation of the operator depressed key.